

In the Claims:

Please amend the claims as indicated below.

1. (Currently amended) A method of accepting a pass code, comprising:

providing a user with a machine-generated challenge; and

receiving, from a user-input device, user input that transforms the machine-generated challenge into a pass code allocated to the user, wherein the user input is dependent on the machine-generated challenge such that the user input to transform the machine-generated challenge into the pass code is different for different machine-generated challenges;

generating ~~receiving~~ a response ~~to the challenge~~ from the user ~~input received from the user input device, wherein said response represents a transformation from the challenge to a pass code allocated to the user,~~ said response allowing the user to be validated against a stored data record of the pass code.

2. (Original) The method of claim 1, wherein said challenge is independent of said pass code.

3. (Original) The method of claim 1, further comprising generating a new challenge for each user validation.

4. (Original) The method of claim 3, wherein said challenge is generated on a random basis.

5. (Original) The method of claim 3, wherein the challenge is generated in response to receiving a request from a user for validation.

6. (Original) The method of claim 1, wherein providing a user with a challenge comprises displaying the challenge to the user.

7. (Original) The method of claim 6, wherein the challenge is displayed to the user in such a manner as to prevent third parties from viewing the challenge.

8. (Currently amended) The method of claim 1, wherein the ~~response~~ user input from the user-input device is received as a set of one or more modifications to be applied to the challenge so that it matches the pass code allocated to the user.

9. (Original) The method of claim 8, wherein said set of one or more modifications is received as directional input from the user.

10. (Original) The method of claim 9, wherein said directional input is received as the result of the user pressing one or more arrow keys that increment or decrement the challenge by a fixed amount.

11. (Original) The method of claim 1, wherein said challenge has the same number of characters as the pass code allocated to the user.

12. (Original) The method of claim 11, wherein said transformation is specified individually for each character of the challenge.

13. (Original) The method of claim 12, further comprising receiving an indication from the user that the transformation for a different character is about to be entered.

14. (Currently amended) The method of claim 1, further comprising receiving an indication from the user that the ~~response~~ user input to transform the challenge has been completely entered.

15. (Currently amended) The method of claim 1, further comprising generating ~~an entered~~ the pass code from the challenge and from the ~~response~~ user input from the user-input device.

16. (Currently amended) The method of claim 15, wherein the response is validated by comparing the ~~entered~~ pass code with the stored data record of the pass code.

17. (Currently amended) The method of claim 1, further comprising:

receiving a communications challenge from an authorisation unit that has access to said stored data record of the pass code;

using the response to encrypt said communications challenge; and

transmitting the encrypted communications challenge to the authorisation unit, thereby allowing the response ~~input by the user~~ to be validated by said authorisation unit against said stored data record of the pass code.

18. (Currently amended) A terminal for use in accepting a pass code, comprising:

an output for providing a user with a machine-generated challenge; and

a user-input device for receiving user input that transforms the machine-generated challenge into a pass code allocated to the user, wherein the user input is dependent on the machine-generated challenge such that the user input to transform the machine-generated challenge into the pass code is different for different machine-generated challenges.

~~an input for receiving a response from the user, wherein said response represents a transformation from the challenge to a pass code allocated to the user, said response allowing the user to be validated against a stored data record of the pass code.~~

19. (Original) The terminal of claim 18, wherein said challenge is independent of said pass code.

20. (Original) The terminal of claim 18, wherein a new challenge is generated for each user validation.

21. (Original) The terminal of claim 20, wherein said challenge is generated on a random basis.

22. (Original) The terminal of claim 20, wherein the challenge is generated in response to receiving a request from a user for validation.

23. (Original) The terminal of claim 18, further comprising a display, wherein the challenge is provided to the user on the display.

24. (Original) The terminal of claim 23, wherein the terminal is configured to prevent parties other than the user from viewing the challenge on the display.

25. (Currently amended) The terminal of claim 18, wherein the response user input from the user-input device is received as a set of one or more modifications to be applied to the challenge so that it matches the pass code allocated to the user.

26. (Original) The terminal of claim 25, wherein said set of one or more modifications is received as directional input from the user.

27. (Currently amended) The terminal of claim 26, ~~further comprising wherein~~ the user-input device comprises one or more arrow keys that increment or decrement the challenge by a fixed amount.

28. (Original) The terminal of claim 18, wherein said challenge has the same number of characters as the pass code allocated to the user.

29. (Original) The terminal of claim 28, wherein said transformation is specified individually for each character of the challenge.

30. (Currently amended) The terminal of claim 29, ~~further comprising wherein~~ the user-input device comprises a key for receiving an indication from the user that the transformation for a different character is about to be entered.

31. (Currently amended) The terminal of claim 18, ~~further comprising wherein~~ the user-input device comprises a key for receiving an indication from the user that the ~~response~~ user input to transform the challenge has been completely entered.

32. (Currently amended) The terminal of claim 18, wherein the an-entered pass code is generated from the challenge and from the ~~response~~ user input from the user-input device.

33. (Currently amended) The terminal of claim 32, wherein the user response is validated by comparing the generated entered pass code with ~~the a~~ stored data record of the pass code.

34. (Currently amended) The terminal of claim 18, further comprising a communications link with an authorisation unit that has access to a said stored data record of the pass code, wherein the terminal receives a communications challenge from said authorisation unit and uses ~~the a~~ response generated from the user input to encrypt said communications challenge, and wherein the encrypted communications challenge is

transmitted to the authorisation unit, thereby allowing the response ~~input by the user~~ to be validated by said authorisation unit against said stored data record of the pass code.

35. (Currently amended) ~~An apparatus means for accepting a pass code, comprising:~~

~~means for providing a user with a machine-generated challenge; and~~

~~means for receiving user input that transforms the machine-generated challenge into a pass code allocated to the user, wherein the user input is dependent on the machine-generated challenge such that the user input to transform the machine-generated challenge into the pass code is different for different machine-generated challenges.~~

~~means for receiving a response from the user, wherein said response represents a transformation from the challenge to a pass code allocated to the user, said response allowing the user to be validated against a stored data record of the pass code.~~

36. (Currently amended) A method for using a pass code to validate a user, comprising:

receiving a request from a user for validation;

generating a challenge in response to said request;

providing the user with the challenge;

receiving, from a user-input device, user input that transforms the challenge into a pass code allocated to the user, wherein the user input is dependent on the

challenge such that the user input to transform the challenge into the pass code is different for different challenges;

generating a response to the challenge from the user input received from the user input device; and

~~receiving a response from the user, wherein said response represents a transformation from the challenge to the pass code; and~~

validating the user on the basis of said response against a stored version of the pass code.

37. (Canceled)

38. (Currently amended) A computer program product comprising instructions encoded on a storage medium, said instructions when loaded into a machine causing the machine:

to provide a user with a machine-generated challenge; and

receive, from a user-input device, user input that transforms the machine-generated challenge into a pass code allocated to the user, wherein the user input is dependent on the machine-generated challenge such that the user input to transform the machine-generated challenge into the pass code is different for different machine-generated challenges.

~~to receive as input a response from the user, wherein said response represents a transformation from the challenge to a pass code allocated to the user, said response allowing the user to be validated against a stored data record of the pass code.~~

39. (Original) The computer program product of claim 38, wherein said challenge is independent of said pass code.

40. (Original) The computer program product of claim 38, wherein said instructions further cause the machine to generate a new challenge for each user validation.

41. (Original) The computer program product of claim 40, wherein the challenge is generated in response to receiving a request from a user for validation.

42. (Original) The of computer program product of claim 40, wherein said challenge is generated on a random basis.

43. (Original) The computer program product of claim 38, wherein providing a user with a challenge comprises displaying the challenge to the user.

44. (Original) The computer program product of claim 43, wherein the challenge is displayed to the user in such a manner as to prevent third parties from viewing the challenge.

45. (Currently amended) The computer program product of claim 38, wherein the ~~response~~ user input from the user-input device is received as a set of one or more modifications to be applied to the challenge so that it matches the pass code allocated to the user.

46. (Original) The computer program product of claim 45, wherein said set of one or more modifications is received as directional input from the user.

47. (Original) The computer program product of claim 46, wherein said directional input is received as the result of the user pressing one or more arrow keys that increment or decrement the challenge by a fixed amount.

48. (Original) The computer program product of claim 38, wherein said challenge has the same number of characters as the pass code allocated to the user.

49. (Original) The computer program product of claim 48, wherein said transformation is specified individually for each character of the challenge.

50. (Currently amended) The computer program product of claim 49, wherein said instructions further cause the machine to receive an indication from the user-input device that the transformation for a different character is about to be entered.

51. (Currently amended) The computer program product of claim 38, wherein said instructions further cause the machine to receive an indication from the user that the response user input to transform the challenge has been completely entered.

52. (Currently amended) The computer program product of claim 38, wherein said instructions further cause the machine to generate ~~an entered~~ the pass code from the challenge and from the ~~response~~ user input from the user-input device.

53. (Currently amended) The computer program product of claim 52, wherein the ~~response~~ user is validated by comparing the generated ~~entered~~ pass code with a ~~the~~ stored data record of the pass code.

54. (Currently amended) The computer program product of claim 38, wherein the instructions further cause the machine:

to receive a communications challenge from an authorisation unit that has access to a ~~said~~ stored data record of the pass code;

to use the a response generated from the user input to encrypt said communications challenge; and

to transmit the encrypted communications challenge to the authorisation unit, thereby allowing the response ~~input by the user~~ to be validated by said authorisation unit against said stored data record of the pass code.